MHRA CL4 Replacement Doors

Suite 1- Guaranteed Contract

Suite 2 – Not Guaranteed:
Dependent on budgetary approval.

Request for Inclusion (RFI)

1. Background

The current doors were fitted as part of a major refurbishment in 2005/6 in the CL4 facility, which replaced the original doors fitted in approximately 1987. A number of remedial repairs have already been carried out, including extra door seals which have been retrospectively fitted, but are now becoming unserviceable. The doors in suite 1 have suffered water egress, due to a recent flooding and appear to be have swelled and distorted. As such the replacement of the doors is now an urgent priority.

The contract for Suite 1 is guaranteed and it is hoped by the time the ITT is published that budget will have been approved for Suite 2. As such this document will detail the requirements for both suites but as stated there is no guarantee the contract for Suite 2 will be included/take place.

2. Purpose of this document

The objective of this document is to allow the Supplier base, to decide whether they wish to be considered for the ITT that will be issued shortly (see timelines section).

The key objective of this procurement is to find a Supplier who is willing to:

- Attend on site to measure and assess the requirements of replacing doors for Suite 1 (See Appendix 1). Please also see the timelines as the site visit will take place on a single day in January (either the 17th, 18th or 19th January 2018) and there will be no other dates available to attend **– TO RESPOND TO THE ITT YOU MUST BE AVAILABLE FOR THESE DATES**.

- Upon receipt of the ITT provide a quote detailing price and estimated timeline for completion of the work for the replacement of the doors for Suite 1.

- Carry out the work to replace the doors in Suite 1 in August 2018. Please note the work can **only** be undertaken in August 2018 (Date to be confirmed) when the facility is closed. There is no other date when the doors could be installed. **YOU MUST BE ABLE TO MAINTAIN ANY QUOTE PROVIDED TO THIS DATE AND BE AVAILABE TO FIT IN AUGUST**

- Provide both planned and reactive maintenance for Suite 1.

- In addition, we would like interested suppliers to also measure and assess the requirements for Suite 2. However, these doors are awaiting budgetary approval so there is **NO** guarantee a contract will be awarded for Suite 2.

- Upon receipt of the ITT provide a quote detailing price and estimated timeline for completion of the work for the replacement of the doors for Suite 2.

- If budgetary approval is given for Suite 2 to carry out the work to replace the doors in August 2018 alongside the work undertaken for Suite 1. However, Suite 1 is the priority.

3. Scope and Objectives

Suite 1: Guaranteed Contract:

- Replace seven (7) doors: 4 x sealable and 3 x clean room type.
- The new sealable doors must provide a reliable and consistent sealed barrier between each room for the required area in the suite to allow fumigation when required. All doors will provide consistent pressure regimes across the thresholds, to provide a controllable and constant pressure regime between each room in the suite.
- Enough time must be allowed to achieve the upgraded hygienic doors, though consideration should be given to the inconvenience of affected users and how this can be mitigated. Work is not to interfere with projects within the suites, unless agreed with appropriate Divisional Resource Manager (DRM). Access to CL4 is highly controlled; provisions must be made to allow all contractors to be supervised by appropriate NIBSC staff.

Suite 2: Awaiting Budgetary Approval. No Guarantee of Contract.

- Replace six (6) doors: 2x sealable, 4x clean room type).
- The new sealable doors must provide a reliable and consistent sealed barrier between each room for the required area in the suite to allow fumigation when required. All doors will provide consistent pressure regimes across the thresholds, to provide a controllable and constant pressure regime between each room in the suite.
- Enough time must be allowed to achieve the upgraded hygienic doors, though consideration should be given to the inconvenience of affected users and how this can be mitigated. Work is not to interfere with projects within the suites, unless agreed with appropriate Divisional Resource Manager (DRM). Access to CL4 is highly controlled; provisions must be made to allow all contractors to be supervised by appropriate NIBSC staff.

Please see Appendix 1 for full specification details and other information.

4. Requirements

Please refer to **Appendix 1** of this document for the requirements and specifications.

5. Timeline

Below is the current proposed timeline to be associated with the procurement. Suppliers must realise that this is a set timeline for the site visit and when the work **must** take place. Suppliers must be able to commit now to key dates. See below:

- *The site visit can only take place on **17th or 18th January 2018** when the facility is closed. (Interested Suppliers must ensure they are free on both dates. Only 1 date will be available for the site visit which will be confirmed).
- The replacement doors must be installed in **August 2018** when the facility is closed.

If you cannot attend on site on these dates, then please do not respond to this RFI.

Activity No.	Description	Completion by Wk End Date
1	RFI Published	22nd December 2017
2	Deadline for RFI responses	10th January 2018
3	Confirmation of Site Visit date	12th January 2018
4	Site Visit Date*	TBC – Will be either 17th, 18th or 19th January 2018
5	ITT sent to interested suppliers	2nd February 2018
6	Deadline for response to ITT	2nd March 2018
7	Contract Awarded	16th March 2018

6. Confirm Inclusion

Suppliers must decide whether they wish to be included. Please email mhrapaas@cadenceinnova.com using the following text as a template:

Dear Sir/Madam

I wish to inform you that [company name] wish to be included in relation to the procurement for MHRA CL4 Replacement Doors.

- Name of contact point in relation to the procurement
- Up to two telephone numbers for this individual, one must be a mobile
- An email address, if the sender of the email is not the named contact
- Confirmation that the supplier can attend a site visit on 17th, 18th or 19thJanuary 2018* and if awarded the contract can undertake the work in August 2018.

*Please refer to the timeline above with regards to the site visit date.

This response should be with the project team on or before: 10th January 2018 at 5pm.

Appendix 1

Whilst this specification and requirements document refers to both Suite 1 and Suite 2, please note that there is no guarantee of a contract for Suite 2. Please refer to the RFI document for further information.

Build Specification and Methodology

The refurbishment will cover 13 hygienic doors (7 for Suite 1 and 6 for Suite 2) as per **Table 1: Door positions** and shown in *containment level 4 lab suite* drawing **Appendix B** indicating the doors to be sealable or clean room type, as well as which doors are to have an interlocking system and magnetic lock. The tender submission will need to be a full description, offering a comprehensive quotation, broken down per hygienic door and further covering the points in the table of **Appendix A**. Please note, there may be works not mentioned in **Appendix A** that may be considered relevant to the upgrades. If this is the case, please add this in the quote and provide a short explanation of the additional works and reasoning.

Suites will be cleaned and decontaminated by NIBSC staff with an agreed time line, as agreed between the NIBSC DRMs and the successful contractor, providing a clean and safe environment for contractors to commence work. The upgrade program would need to deliver upgraded doors in terms of; Core, facing, door leaf, finish, colour, door frame, hinges, glazing, protection, fixings, link to BMS and interlocking systems to provide a more reliable operational door for CL4 requirements.

All installed hygienic doors will need to be commissioned/validated allowing for calibration checks, alarm testing, pressure re-balancing and sealability testing to prove the hygienic doors are functioning correctly and pressure regimes are within specification, prior to being handed back to NIBSC DRMs.

Due to the nature of the area, it is requested the works be completed, with the furthest door in the suite to be completed first, working backwards to the main door.

Structure information on the building floor, slab and walls can be found in **Appendix C**

NB1: The CDM Regulations 2015 will apply to the project and that the appointed contractor will be the Principal Designer & Principal Contractor under the Regulations

Table 1: Door positions

Door position in CL4

Suite 1; Guaranteed Contract,
Suite 2: No Guarantee of Contract

Door position	Door Number	Door Type	Interlocking doors	Fumigation areas covered
A030-A029	S1D1	Fumigation	Yes	A029, A025, A026, A024, A021, A023 & A022
A029-A025	S1D2	Clean room	Yes	
A026-A024	S1D3	Clean room	Yes	
A026-A024	S1D4	Clean room	Yes	
A024-A021	S1D5	Fumigation	No	A021
A024-A022	S1D6	Fumigation	No	A022 & A023
A022-A023	S1D7	Fumigation	No	A023
A011-A012	S2D1	Fumigation	No	A012, A013, A014, A017, A018, A019 & A027
A012-A013	S2D2	Clean room	No	
A014-A017	S2D3	Clean room	Yes	
A014-A017	S2D4	Clean room	Yes	
A017-A018	S2D5	Fumigation	Yes	A018
A017-A019	S2D6	Clean room	Yes	

Table 2: Room pressure requirements

Room pressure regime (Those in bold are for Suite 1)

Room No.	Room Name		Room pressure set point (Pa)	Room pressure requirement (+/-)(Pa)
A011	Inner Lobby 2		+15	5
A012	Clean change 2		-20	5
A014	Dirty change 2		-35	5
A017	Corridor 2		-50	5
A019	Animal holding 2		-85	5

A013	Shower 2		-35	5
A018	Laboratory 2		-125	5
A010	Effluent tanks (ETP)		-35	5
A015	Fumigation chamber		-30	
A021	**Laboratory 1**		**-85**	**5**
A022	**Ante-room**		**-85**	**5**
A023	**Animal holding 1**		**-115**	**5**
A025	**Shower 1**		**-35**	**5**
A024	**Corridor 1**		**-50**	**5**
A026	**Dirty change 1**		**-35**	**5**
A029	**Clean change 1**		**-20**	**5**
A027	**Fumigation chamber 1**		**-30**	
A009	Effluent tanks (ETP)		-35	5
A030	**Inner lobby 1**		**+15**	**5**

Site Inspection – Please refer to the RFI document.

The Contractor shall be deemed to have satisfied themselves as to the local conditions with regard to accessibility of the site, the full extent and nature of the works, the supply of and conditions affecting labour, toilets, carriage, unloading, tools, ladders, welfare and anything which may influence his/her tender for carrying out the works.

Decommissioning and removal of existing redundant plant and waste materials.

NIBSC will isolate all services as necessary; work permits will be issued to cover all the scope of works. All waste will be disposed of in a skip(s) provided by the contractors – no contractors waste will be disposed of in the NIBSC skips. Note: When stripping out both redundant and replacement facilities, please make sure that all unused cable/conduit is also fully removed. It is your duty as a contractor to dispose of waste under the WASTE duty of care. All disposed waste from NIBSC, must have a certificate stating that the waste items have been transferred to an authorised waste handler, and disposed of accordingly. This certificate must be handed to NIBSC for our records.
An Asbestos Register for the National Biological Standards and Control was compiled in 2003/2004, 2009 and updated 2010. This register is available on request.
A contractor must comply with:

1. CAR 2012 regulation 6 – Assessment of work which exposes employees to asbestos
2. CAR 2012 regulation 10 – Information, Instruction and Training
3. As well as other health and safety legislation that applies to the work

Floor areas and equipment belonging to NIBSC affected by the replacement doors works must be protected by sheet ply or correx.

Installing, testing and commissioning electrical systems and facilities

All works must comply with IEE 17th edition and latest clean rooms hygienic door standards

Commissioning for Pressure Regime, Balancing and Air Change Rates

NIBSC preferred contractor is indicated in NIBSC eTendering portal, but managed by winning contractor, with cost included on separate line of the quotation and commercial page of the tender system. SOP

documentation will be supplied to winning contractor. Tendering contractor will include schedule in Gantt chart. Winning contractor will include results in O&M.

Room Sealability Testing:

To be completed by NIBSC trained staff. Tendering contractor will include schedule in Gantt chart. Winning contractor will include results in O&M.

BMS and Local Alarm Testing:

NIBSC preferred contractor is indicated in NIBSC eTendering portal, but managed by winning contractor, with cost included on separate line of the quotation and commercial page of the tender system. Tendering contractor will include schedule in Gantt chart. Winning contractor will include results in O&M.

Reinstate cage and any panels removed, plus making good/repair to surfaces.

At the end of the installs please make sure that the areas are put back as found. Caging and guards replaced, where removed.

All old drill holes, etc. and areas requiring sealant must be sealed with C/S Hygienic Mastic. Larger areas i.e. making good walls etc., must be decorated using C/S Armour glaze (solvent based two pack polyurethane), using method of scraping back damaged areas to firm edges, spot filling with two pack filler, re-coating the whole area with two pack epoxy filler and 2 coats C/S Armour glaze. To be completed by NIBSC preferred contractor as indicated in NIBSC eTendering portal.

Please note any drill holes in the walls need to be agreed beforehand with the CL4 maintenance lead and Safety Biological Officer (S.B.O.)

Rubber matting will need to be re-laid.

Activity Schedule of Contractor's Work

The activity schedule is to be provided by the Contractor showing the detailed activities involved in the project execution.
Please note, drying time for fabric repairs will need to be included in schedule of works and Gantt chart.
When returning your tender please detail how you expect to carry out the works. Specify how each task will be completed. How timings will affect the installation. Downtime expected for installation to take place.
Contractor will include testing and commissioning times in Gantt chart.
Please note works can only be completed during the Service Level Agreement (SLA) shutdowns, which is scheduled for summer of 2018. Working hours are between 08:30 and 16:30 Monday to Friday (not including public holidays) unless agreed otherwise by NIBSC maintenance. Breaks to be taken as instructed by NIBSC responsible person for supervision

Site inductions and Permits to work

All contractors will go through security checks and inducted to the site security and site health & safety by authorised NIBSC Staff.
NIBSC operates a permit to work, areas covered by these permits Include; general permits, electricity working, hot works, working at height and decontamination certificates.
All permits will be issued as necessary by authorised NIBSC Staff.

Contractor safety, PPE and equipment

As part of the works the Contractor shall ensure that their personnel and sub-contractors have received the correct safety induction and have available the necessary tools, plant, plus their required test certificates and personal protection to complete the works.

Operating and maintenance manuals-spares.

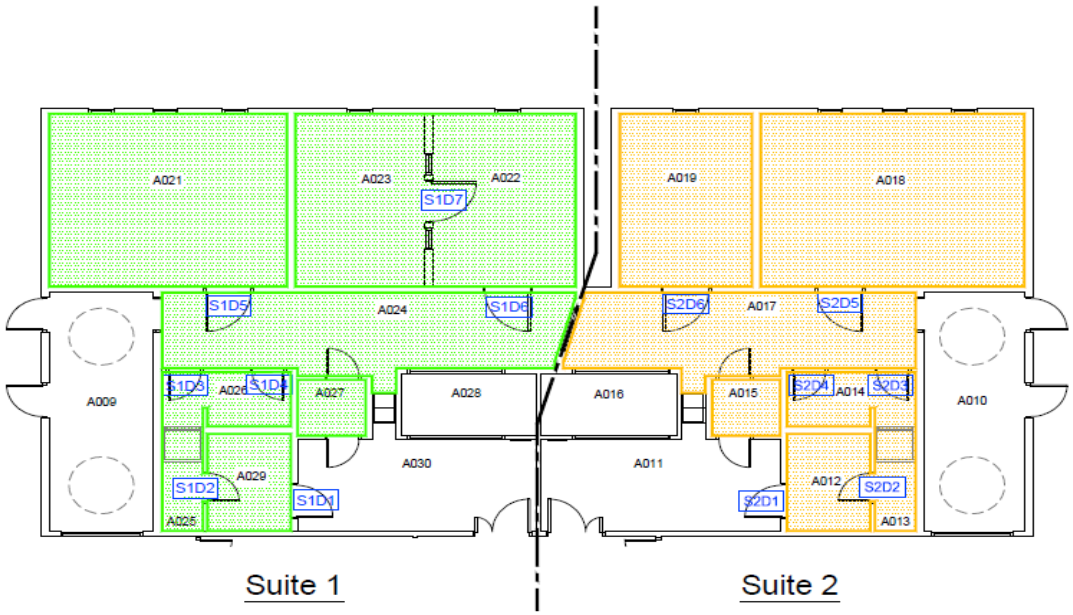
O&M manuals will need to be provided showing new equipment and as built drawings, along with all certification and commissioning details. A full set of O&M's must be provided electronically in word format and AutoCAD for as-installed drawings. Full spares list & training for maintenance engineers.

APPENDIX A: Hygienic laboratory door requirements (2017)

	Description
1.	**GMP Door Construction**
a.	Core/Facing/Finish – Inorganic surface and inner core to prevent bacterial growth. Smooth, hygienic, seamless surface for ease of cleaning.
b.	Door leaf – Single door leaf
c.	Colour – in keeping with the suites
d.	Door frame – Welded and sealed Smooth, hygienic, seamless surface, sealed, cleanable for ease of cleaning – Stainless steel preferable
e.	Observation panel – Vision panel must be present in the door, with frosted (preferred) or blackout function where required (Vision panels must be sealed, cleanable and without raised edges, frames or mitred corner profiles).
f.	Protection - Water and chemical resistant to the facilities cleaning products, including fumigation agent.
g.	Fixings – Welded lock keeps and sealed hinges, closers & handles- must not interfere with functional areas. Doors need to be self-closing.
h.	Interlocking system – See **Table 1: Door positions** and **Appendix B**
i.	Locks – Magnetic locks – See **Table 1: Door positions** and **Appendix B** interlocking doors
j.	Mechanical or pneumatic or other seal doors – Easily sealable for fumigation purposes. Automatic drop-down seals or equivalent
k.	Trolley access – therefore even surface to floor
l.	Ability to withstand high or low temperatures
m.	Airtightness – Most doors are not originally intended to be air-tight and whilst being close-fitting to the frame and having a pile wiper to the floor, the small amount of leakage around the door is intended and allowed for in the design of the air conditioning system, the safeguard being provided by constantly maintained and monitored differential pressure between adjacent rooms
n.	Accessibility – Doors should be tall and wide enough to allow free movement of racks/equipment. Doors open area to be same as doors at present. Hinges, closers, handles and locks should not obstruct movement of items through the doors.
o.	Ability for all doors to be fixed open during fumigation, with automatic release. Doors to have fumigation ports that are sealable F.O.C. Fumigation sockets to be fitted in both lobbies.
2.	**Fire rating**
	To BS 476 – Doors to be marked with their fire ratings
3.	**Security**
	Pin/break glass for door access/exit – Information supplied at site visit
4.	**Control panels**
	Control of the door as a standalone door with an alarm signal to the BMS
5.	**BMS and local alarms**
	Possible (dependent on door) alarms to the Building Management System (BMS) for; Pneumatic - Faulty seal, door control for fumigation mode. Mechanical – Door control for fumigation mode These need to show all the alarms indicating which alarm is being activated via the BMS
6.	**Services**
	a. Electrical supply
	b. Compressed air supply
	c. BMS supply – Formalin monitoring sensors in lobbies required
7.	**Builders works**
	Dismantling, removal, installation and all other builders works associated with each door
8.	**Warranty/guarantee**
	Minimum 12 month warranty required
9.	**O&M**
	Documentation: Word (.Docx) – Equipment specifications, maintenance/servicing requirements, test certificates.
	Mechanical: .dwg - CAD drawings and data sheets of all mechanical systems

Electrical	.dwg - CAD drawings and data sheets of all electrical systems

APPENDIX B



Door position	Door Number	Door Type	Interlocking doors	Fumigation areas covered
A030-A029	S1D1	Fumigation	Yes	A029, A025, A026, A024, A021, A023 & A022, A027
A029-A025	S1D2	Clean room	Yes	
A026-A024	S1D3	Clean room	Yes	
A026-A024	S1D4	Clean room	Yes	
A024-A021	S1D5	Fumigation	No	A021
A024-A022	S1D6	Fumigation	No	A022 & A023
A022-A023	S1D7	Fumigation	No	A023
A011-A012	S2D1	Fumigation	No	A012, A013, A014, A017, A018, A019 & A015
A012-A013	S2D2	Clean room	No	
A014-A017	S2D3	Clean room	Yes	
A014-A017	S2D4	Clean room	Yes	
A017-A018	S2D5	Fumigation	Yes	A018
A017-A019	S2D6	Clean room	Yes	

REV:	DESCRIPTION:	BY:	DATE:
A	For tender	AGB	18-10-17

STATUS: TENDER

NIBSC
Confidence in Biological Medicines
National Institute for Biological Standards and Control
Blanche Lane, South Mimms, Potters Bar, Hertfordshire, EN6 3QG
Tel: +44 (0)1707 641000
Fax: +44 (0)1707 641050
Website: www.nibsc.org

PROJECT:
17-006
CL4 Suite 1 & 2
Replacement Doors

TITLE:
Ground Floor Plan
Door and Fumigation Area Key

DRAWN:	MS/AGB	DATE:	18-10-17
CHECKED:		DATE:	
SCALE:	1:100	SHEET	A3
DRAWING No:	17-006-GF-001	REV:	A

APPENDIX C

SECTION 2 - DESCRIPTION OF THE DESIGN INTENT

2.1 STRUCTURE

2.1.1 Structural Floor Slab

The entire category 'A' building is constructed on a reinforced concrete slab with additional thickening at structural column bases, edges and points of heavy equipment loading. The standard thickness over the majority of the inner containment area is 200 mm, and this has been increased to 500 mm thickness under the bearing points of the independant ICA (Inner Containment Area) 'Unistrut' steelwork columns. The ICA slab is raised 100 mm above the outer corridor slab and was cast separately to avoid direct linking of the ICA to the main outer shell.

The two effluent plant rooms were cast monolithically with the ICA slab and have reinforced concrete walls and floor. Two drainage channels were cast in the main slab to route waste pipes from t[redacted] animal holding rooms to their respective effluent plant rooms. These have been subsequently infilled and finished level with the main slab.

A drainage sump was cast into the floor of each effluent plant room and the remainder of the floor slopes towards these.

The entire ICA and outer corridor floor slabs have a sand and cement screed of approximately 50 mm thickness onto which the walls were constructed and the floor finishes applied.

A gap was formed between the outer corridor and the raised ICA slab around the entire perimeter of the ICA. This is intended to prevent direct stuctural linking of the ICA from the main building outer shell, and it has been filled with an elastomeric setting compound and the floor finish taken across it.

2.1.2 Steelwork

Stands on the raised ICA floor slab and is totally free standing and independant of the main outer shell steelwork.

It comprises of 24 RHS steel columns sitting directly onto the ICA concrete slab, supporting fully welded 'Unistrut' lattice beams running across the minor dimension of the ICA. The lattice beams are bolted to the top of the columns and, in addition, sit on a cleat, welded to the side of the column. Each lattice beam runs directly beneath the respective steel frame of the main shell, but is not connected to it.

The RHS steel columns are, in most cases, concealed within the cavity of the hollow wall structure. The lattic beams are visible where they are tied to the ICA plant floor boarding.

The ICA steelwork has been designed to support all the ceiling structure, originally installed equipment and up to six maintenance personnel at any location.

The ICA steelwork is not fire-rated.

SECTION 2 - DESCRIPTION OF THE DESIGN INTENT (CONT'D)

2.1 STRUCTURE (CONT'D)

2.1.3 ICA Walls

All perimeter and inner walls are constructed in the same manner.

The wall framework comprises 100 x 50 x 18g galvanised ms channel studs running vertically and spaced at 600 mm centres. These studs are rivetted to a floor and ceiling channel of the same material. Cross-members form the heads of door and window openings and are used to provide additional strength for special supports and service outlets.

All wall surfaces are clad with two thicknesses of 12.7 mm Gypsum plasterboard, with joints staggered and skimmed to produce a smooth finish. (One exception to this is [redacted] Animal Holding Room 1-A023, where the party wall to the adjacent laboratory is clad with one thickness of 12.7 mm plywood and one 12.7 mm thickness of plasterboard, to provide a more secure structure for cage-restraining hooks to be attached to.)

All boards have been bedded in mastic as they are applied to produce an inherently sealed structure, although this is not intended to be the critical containment seal - this being achieved by the final finish glass fibre.

The construction of the perimeter wall is such that when considered together with the perimeter windows and doors, it provides a half-hour fire resistance rating in accordance with BS 476.

It should be noted that all services are run on the surface of the walls to limit avoidable penetrations that could contribute to a reduction of the containment efficacy.

2.1.4 ICA Ceiling/Plant Floor

Is constructed from rolled, galvanised ms channels of section 145 x 50 x 1.5 mm spaced at 400 mm centres and running East-West.

The channels are bolted to the bottom web of the 'Unistrut' lattice beams and 'sandwich' the 25 mm WBP plywood sheets that form the walking surface of the ICA ceiling plant floor. These sheets cover the entire surface of the ICA and, as well as providing a walking surface, protect the ceiling from mechanical damage and provide a solid, flat surface to receive the waterproof finish.

The underside of the ceiling channels are clad with one thickness of 12.7 mm Gypsum plasterboard, with all joints skimmed and taped to produce a smooth finish. These ceiling boards were installed before the walls were constructed beneath them, to provide rigidity and security at the edges of the rooms.

The ceiling structure generally provides a half hour fire resistance in accordance with BS 476, but is penetrated by air conditioning filter boxes and services penetration tubes which are not fire-rated. (This was approved by the Home Office.)